

Access DB# 76691**SEARCH REQUEST FORM**

Scientific and Technical Information Center

Requester's Full Name: ANDY KASHNIKOW Examiner #: 60484 Date: 9/30/02
 Art Unit: 3700 Phone Number 301-1137 Serial Number: 101032559
 Mail Box and Bldg/Room Location: CP2-2A01 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: _____

Inventors (please provide full names): _____

Earliest Priority Filing Date: _____

**For Sequence Searches Only* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.*

LIT SEARCH FOR U.S. PATENT
 No. 4,759,749
 PRI. 11/16/79
 7726

BEST AVAILABLE COPY

STAFF USE ONLY**Type of Search****Vendors and cost where applicable**

| | | |
|---|--|------------------------|
| Searcher: <u>Solomon</u> | NA Sequence (#) _____ | STN _____ |
| Searcher Phone #: <u>305-5932</u> | AA Sequence (#) _____ | Dialog _____ |
| Searcher Location: <u>CP2, 2C08</u> | Structure (#) _____ | <u>Questel/Orbit</u> |
| Date Searcher Picked Up: <u>9-30-02</u> | Bibliographic _____ | Dr.Link _____ |
| Date Completed: <u>9-30-02</u> | Litigation <input checked="" type="checkbox"/> | <u>Lexis/Nexis</u> |
| Searcher Prep & Review Time: <u>8</u> | Fulltext _____ | Sequence Systems _____ |
| Clerical Prep Time: _____ | Patent Family _____ | WWW/Internet _____ |
| Online Time: <u>4</u> | Other _____ | Other (specify) _____ |

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

4759749

July 26, 1988

Heater for physiological fluids

REISSUE: Reissue Application filed Dec. 2, 1996 (O.G. Aug. 5, 1997) Ex. Gp.: 3306; Re. S.N. 08/758,853 Reissue Application filed Dec. 6, 1995 (O.G. Mar. 26, 1996) Ex. Gp.: 3306; Re. S.N. 08/571, 706 Reissue Application filed Nov. 3, 1993 (O.G. Mar. 21, 1995) Ex. Gp.: 3306; Re. S.N. 08/145, 099 Reissue Application filed Nov. 20, 1992 (O.G. Feb. 23, 1993) Ex. Gp.: 3306 Reissue Application filed Jul. 26, 1990 (O.G. Oct. 2, 1990) Ex. Gp.: 336, August 5, 1997; January 2, 2002 - Reissue Application filed Ex. Gp.: 3763; Re. S.N. 10/032,559 August 20, 2002

APPL-NO: 866910 ()

FILED-DATE: May 27, 1986

GRANTED-DATE: July 26, 1988

ENGLISH-ABST:

A self-contained portable unit for heating physiological fluids is disclosed. A heat exchanger is disposable to ensure sterility, and the heat exchanger is attached to a heating system by inserting it between opposed fluid connection elements. One of the fluid connection elements is movable to permit the heat exchanger to be installed and removed easily by inserting one end of the heat exchanger in one of the fluid connection units and moving the other fluid connection unit into contact with an opposite end of the heat exchanger. The heating fluid is heated by an electric heating element and is circulated by an electric pump.

(C) QUESTEL 1994
QUESTEL.ORBIT (TM) 1998

Selected file: PLUSPAT

** SS 1: Results 1

1 / 1 PLUSPAT - @QUESTEL-ORBIT - image
PN - US4759749 A 19880726 [US4759749]
TI - (A) Heater for physiological fluids
PA - (A) LEVEL 1 TECHNOLOGIES INC (US)
IN - (A) VERKAART WESLEY H (US)
AP - US86691086 19860527 [1986US-0866910]
PR - US86691086 19860527 [1986US-0866910]
EC - A61M-005/44
ICO - K61M-205/36L
PCL - ORIGINAL (O) : 604113000; CROSS-REFERENCE (X) : 165067000
165156000 422046000
DT - Corresponding document
CT - US1873590; US2432592; US2910981; US3064649; US3374066; US3643733;
US3831672; US4066119; US4437513; US4475584; US4559999; US4562890;
US4623333; US4678460
STG - (A) United States patent
AB - A self-contained portable unit for heating physiological fluids is
disclosed. A heat exchanger is disposable to ensure sterility,
and the heat exchanger is attached to a heating system by
inserting it between opposed fluid connection elements. One of the
fluid connection elements is movable to permit the heat exchanger
to be installed and removed easily by inserting one end of the
heat exchanger in one of the fluid connection units and moving the
other fluid connection unit into contact with an opposite end of
the heat exchanger. The heating fluid is heated by an electric
heating element and is circulated by an electric pump.

1 / 1 LGST - @LEGSTAT
PN - US 4759749 [US4759749]
AP - US 866910/86 19860527 [1986US-0866910]
DT - US-P
ACT - 19860527 US/AE-A
APPLICATION DATA (PATENT)
US 866910/86 19860527 [1986US-0866910]

19860703 US/AS02
ASSIGNMENT OF ASSIGNOR'S INTEREST
LEVEL 1 TECHNOLOGIES, INC., 29 ALDRIN ROAD, PLYMOUTH, MA., 02360 *
VERKAART, WESLEY H. : 19860527

19880726 US/A
PATENT

19901002 US/RF
REISSUE APPLICATION FILED
900726

19930223 US/RF
REISSUE APPLICATION FILED
921120

19950321 US/RF
REISSUE APPLICATION FILED
931103

19960326 US/RF
REISSUE APPLICATION FILED
951206

19960522 US/AS01
CHANGE OF NAME
SIMS LEVEL 1, INC. 160 WEYMOUTH STREET ROCKLAND, MASSACHUSETTS
02370 * LEVEL 1 TECHNOLOGIES, INC. : 19951017

19970805 US/RF
REISSUE APPLICATION FILED
961202

20020820 US/RF
REISSUE APPLICATION FILED
20020102

UP - 2002-35

1 / 1 CRXX - @CLAIMS/RRX
PN - 4,759,749 D 19880726 [US4759749]
PA - LEVEL 1 TECH INC
ACT - 19900726 REISSUE REQUESTED
ISSUE DATE OF O.G.: 19901002
REISSUE REQUEST NUMBER: 07/558177
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 336

Reissue Patent Number:

19921120 REISSUE REQUESTED
ISSUE DATE OF O.G.: 19930223
REISSUE REQUEST NUMBER: 07/979434
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 3306

Reissue Patent Number:

19931103 REISSUE REQUESTED
ISSUE DATE OF O.G.: 19950321
REISSUE REQUEST NUMBER: 08/145099
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 3306

Reissue Patent Number:

19951206 REISSUE REQUESTED
ISSUE DATE OF O.G.: 19960326
REISSUE REQUEST NUMBER: 08/571706
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 3306

Reissue Patent Number:

19960522 REASSIGNED

CHANGE OF NAME

Assignor: LEVEL 1 TECHNOLOGIES, INC. DATE SIGNED: 10/17/1995

Assignee: SIMS LEVEL 1, INC. 160 WEYMOUTH STREET ROCKLAND
MASSACHUSETTS 02370

Reel 007969/Frame 0136

Contact: DICKINSON, WRIGHT, MOON VAN DUSEN & ETAL CONRAD J. CLARK
1901 L STREET, N.W., SUITE 800 WASHINGTON, D.C. 20036

19961202 REISSUE REQUESTED
ISSUE DATE OF O.G.: 19970805
REISSUE REQUEST NUMBER: 08/758853
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 3306

Reissue Patent Number:

20020102 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20020820
REISSUE REQUEST NUMBER: 10/032559
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 3763

Reissue Patent Number:

20020123 REASSIGNED
CHANGE OF NAME

Assignor: SIMS LEVEL 1, INC. DATE SIGNED: 07/01/2001

Assignee: LEVEL 1, INC. 160 WEYMOUTH STREET ROCKLAND MASSACHUSETTS
02370

Reel 012495/Frame 0284

Contact: LAW OFFICES OF LOUIS WOO LOUIS WOO, ESQ. 1901 N. FORT
MYER DRIVE SUITE 501 ARLINGTON, VA 22209

1 / 6 PAST - ©Thomson Derwent
AN - 200234-001590
PN - 4759749 A [US4759749]
OG - 2002-08-20
ACT - REISSUE APPLICATION FILED

2 / 6 PAST - ©Thomson Derwent
AN - 199731-001428
PN - 4759749 A [US4759749]
OG - 1997-08-05
ACT - REISSUE APPLICATION FILED

3 / 6 PAST - ©Thomson Derwent
AN - 199613-000642
PN - 4759749 A [US4759749]
OG - 1996-03-26
ACT - REISSUE APPLICATION FILED

4 / 6 PAST - ©Thomson Derwent
AN - 199512-000689
PN - 4759749 A [US4759749]
OG - 1995-03-21
ACT - REISSUE APPLICATION FILED

5 / 6 PAST - ©Thomson Derwent
AN - 199307-001229
PN - 4759749 A [US4759749]
OG - 1993-02-23
ACT - REISSUE APPLICATION FILED

6 / 6 PAST - ©Thomson Derwent
AN - 199010-001495
PN - 4759749 A [US4759749]
OG - 1990-10-02
ACT - REISSUE APPLICATION FILED

Selected file: INPADOC

**** SS 1: Results 13**

1 / 13 INPADOC - ©INPADOC
PN - AT 127350 E 19950915 [ATE127350]
TI - UNABHAENGIGE, TRANSPORTIERBARE VORRICHTUNG ZUM HEIZEN VON
PHYSIOLOGISCHEN FLUESSIGKEITEN.
IN - VERKAART WESLEY H [US]
PA - LEVEL 1 TECHNOLOGIES INC [US]
AP - AT 87850176/87-EP 19870526 [1987EP-0850176]
PR - US 866910/86-A 19860527 [1986US-0866910]
IC - A61M-001/00; A61M-001/36; A61M-005/14

1 / 2 LEGALI - ©LEGSTAT
PN - AT 127350 [ATE127350]
DT - AT-R
ACTE - 19950915 AT/REF-P
CORRESPONDS TO EP-PATENT
(EP 247989 19950906 [EP-247989])

19960415 AT/UEP [+]
PUBLICATION OF TRANSLATION OF EUROPEAN PATENT SPECIFICATION

19961015 AT/EEFA
CHANGE OF THE COMPANY NAME
UP - 1996-43

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PN - EP 247989 [EP-247989]
AP - EP 87850176/87 19870526 [1987EP-0850176]

DT - EP-P
 ACTE - 19870526 EP/AE-A
 EP-APPLICATION
 EP 87850176/87 19870526 [1987EP-0850176]

19871202 EP/AK-A2 [+]
 DESIGNATED CONTRACTING STATES IN AN APPLICATION WITHOUT SEARCH
 REPORT:
 AT BE CH DE ES FR GB GR IT LI LU NL SE

19871202 EP/A2 [+]
 PUBLICATION OF APPLICATION WITHOUT SEARCH REPORT

19901122 EP/AK-A3 [+]
 DESIGNATED CONTRACTING STATES IN A SEARCH REPORT:
 AT BE CH DE ES FR GB GR IT LI LU NL SE

19901122 EP/A3 [+]
 SEPARATE PUBLICATION OF THE SEARCH REPORT (ART. 93)

19910626 EP/17P [+]
 REQUEST FOR EXAMINATION FILED
 910429

19920902 EP/17Q [+]
 FIRST EXAMINATION REPORT
 920721

19950906 EP/AK-B1 [+]
 DESIGNATED CONTRACTING STATES MENTIONED IN A PATENT
 SPECIFICATION:
 AT BE CH DE ES FR GB GR IT LI LU NL SE

19950906 EP/B1 [+]
 PATENT SPECIFICATION

19950906 EP/REF-R [+]
 IN AUSTRIA REGISTERED AS:
 (AT 127350 19950915 [ATE127350])

19951012 EP/REF-P
 CORRESPONDS TO:
 (DE 3751504 19951012 [DE3751504])

19951116 EP/REG; ES/FG2A
 ES: DEFINITIVE PROTECTION
 2076932T3
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19951206 EP/ITF [+]
 IT: TRANSLATION FOR A EP PATENT FILED
 UFFICIO BREVETTI RICCARDI & C.

19951229 EP/REG; GR/FG4A [+]
 GR: VALIDATION IN GREECE
 3017835
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19960112 EP/ET [+]
 FR: TRANSLATION FILED

19960731 EP/REG; CH/PFA
 CH: NAME/FIRM CHANGED

LEVEL 1 TECHNOLOGIES, INC. -DANN IN- SIMS LEVEL 1, INC.
<CH>

19960828 EP/26N [+]
NO OPPOSITION FILED

19961001 EP/NLT1
NL: MODIFICATIONS OF NAMES REGISTERED IN VIRTUE OF DOCUMENTS
PRESENTED TO THE PATENT OFFICE PURSUANT TO ART. 16 A, PARAGRAPH
1(d) OF THE PATEN
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19961201 EP/REG; ES/PC2A [+]
ES: TRANSFER GRANTED
SIMS LEVEL 1, INC
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19970110 EP/REG; FR/CA
FR: CHANGE OF ADDRESS
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19970110 EP/REG; FR/CD
FR: CHANGE OF NAME OF NOMINATION
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20020101 EP/REG; GB/IF02 [+]
GB: EUROPEAN PATENT IN FORCE AS OF 2002-01-01
<GB>

UP - 2002-17

2 / 13 INPADOC - @INPADOC
PN - CA 1271796 A1 19900717 [CA1271796]
TI - DEVICE FOR HEATING PHYSIOLOGICAL FLUIDS
LA - ENG
IN - VERKAART WESLEY H
PA - LEVEL 1 TECHNOLOGIES INC
AP - CA 537953/87-A 19870526 [1987CA-0537953]
PR - US 866910/86-A 19860527 [1986US-0866910]
IC - A61M-001/00; A61M-001/36; A61M-005/14

3 / 13 INPADOC - @INPADOC
PN - DE 3751504 C0 19951012 [DE3751504]
TI - UNABHAENGIGE, TRANSPORTIERBARE VORRICHTUNG ZUM HEIZEN VON
PHYSIOLOGISCHEN FLUESSIGKEITEN.
IN - VERKAART WESLEY H [US]
PA - LEVEL 1 TECHNOLOGIES INC [US]
AP - DE 3751504/87-A 19870526 [1987DE-3751504]
PR - US 866910/86-A 19860527 [1986US-0866910]
IC - A61M-001/00; A61M-001/36; A61M-005/14

1 / 2 LEGALI - @LEGSTAT
PN - DE 3751504 [DE3751504]
DT - DE-P
ACTE - 19951012 DE/REF-P
CORRESPONDS TO
(EP 247989 19951012 [EP-247989])

19960222 DE/8373
TRANSLATION OF PATENT DOCUMENT OF EUROPEAN PATENT WAS RECEIVED
AND HAS BEEN PUBLISHED

19961002 DE/8364 [+]
NO OPPOSITION DURING TERM OF OPPOSITION

19970814 DE/8327
CHANGE IN THE PERSON/NAME/ADDRESS OF THE PATENT OWNER
SIMS LEVEL 1, INC., ROCKLAND, MASS., US
UP - 1997-33

2 / 2 LEGALI - ©LEGSTAT
PN - EP 247989 [EP-247989]
AP - EP 87850176/87 19870526 [1987EP-0850176]
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19871202 EP/AK-A2 [+]
DESIGNATED CONTRACTING STATES IN AN APPLICATION WITHOUT SEARCH
REPORT:
AT BE CH DE ES FR GB GR IT LI LU NL SE

19871202 EP/A2 [+]
PUBLICATION OF APPLICATION WITHOUT SEARCH REPORT

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DESIGNATED CONTRACTING STATES IN A SEARCH REPORT:
AT BE CH DE ES FR GB GR IT LI LU NL SE

19901122 EP/A3 [+]
SEPARATE PUBLICATION OF THE SEARCH REPORT (ART. 93)

19910626 EP/17P [+]
REQUEST FOR EXAMINATION FILED
910429

19920902 EP/17Q [+]
FIRST EXAMINATION REPORT
920721

19950906 EP/AK-B1 [+]
DESIGNATED CONTRACTING STATES MENTIONED IN A PATENT
SPECIFICATION:
AT BE CH DE ES FR GB GR IT LI LU NL SE

19950906 EP/B1 [+]
PATENT SPECIFICATION

19950906 EP/REF-R [+]
IN AUSTRIA REGISTERED AS:
(AT 127350 19950915 [ATE127350])

19951012 EP/REF-P
CORRESPONDS TO:
(DE 3751504 19951012 [DE3751504])

19951116 EP/REG; ES/FG2A
ES: DEFINITIVE PROTECTION
2076932T3
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19951206 EP/ITF [+]

IT: TRANSLATION FOR A EP PATENT FILED
UFFICIO BREVETTI RICCARDI & C.

19951229 EP/REG; GR/FG4A [+]
GR: VALIDATION IN GREECE
3017835
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19960112 EP/ET [+]
FR: TRANSLATION FILED

19960731 EP/REG; CH/PFA
CH: NAME/FIRM CHANGED
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19960828 EP/26N [+]
NO OPPOSITION FILED

19961001 EP/NLT1
NL: MODIFICATIONS OF NAMES REGISTERED IN VIRTUE OF DOCUMENTS
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4 / 13 INPADOC - @INPADOC
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TI - UNABHAENGIGE, TRANSPORTIERBARE VORRICHTUNG ZUM HEIZEN VON
PHYSIOLOGISCHEN FLUESSIGKEITEN.
IN - VERKAART WESLEY H [US]
PA - LEVEL 1 TECHNOLOGIES INC [US]
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PR - US 866910/86-A 19860527 [1986US-0866910]
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DT - DE-P
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CORRESPONDS TO
(EP 247989 19951012 [EP-247989])

19960222 DE/8373

TRANSLATION OF PATENT DOCUMENT OF EUROPEAN PATENT WAS RECEIVED
AND HAS BEEN PUBLISHED

19961002 DE/8364 [+]
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19970814 DE/8327
CHANGE IN THE PERSON/NAME/ADDRESS OF THE PATENT OWNER
SIMS LEVEL 1, INC., ROCKLAND, MASS., US
UP - 1997-33

2 / 2 LEGALI - @LEGSTAT
PN - EP 247989 [EP-247989]
AP - EP 87850176/87 19870526 [1987EP-0850176]
DT - EP-P
ACTE - 19870526 EP/AE-A
EP-APPLICATION
EP 87850176/87 19870526 [1987EP-0850176]

19871202 EP/AK-A2 [+]
DESIGNATED CONTRACTING STATES IN AN APPLICATION WITHOUT SEARCH
REPORT:
AT BE CH DE ES FR GB GR IT LI LU NL SE

19871202 EP/A2 [+]
PUBLICATION OF APPLICATION WITHOUT SEARCH REPORT

19901122 EP/AK-A3 [+]
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FIRST EXAMINATION REPORT
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19950906 EP/AK-B1 [+]
DESIGNATED CONTRACTING STATES MENTIONED IN A PATENT
SPECIFICATION:
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19950906 EP/B1 [+]
PATENT SPECIFICATION

19950906 EP/REF-R [+]
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19951012 EP/REF-P
CORRESPONDS TO:
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UFFICIO BREVETTI RICCARDI & C.

19951229 EP/REG; GR/FG4A [+]
GR: VALIDATION IN GREECE
3017835
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19960112 EP/ET [+]
FR: TRANSLATION FILED

19960731 EP/REG; CH/PFA
CH: NAME/FIRM CHANGED
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NO OPPOSITION FILED

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NL: MODIFICATIONS OF NAMES REGISTERED IN VIRTUE OF DOCUMENTS
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1(d) OF THE PATEN
SIMS LEVEL 1, INC.

19961201 EP/REG; ES/PC2A [+] .
ES: TRANSFER GRANTED
SIMS LEVEL 1, INC
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FR: CHANGE OF ADDRESS
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FR: CHANGE OF NAME OF NOMINATION
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20020101 EP/REG; GB/IF02 [+]
GB: EUROPEAN PATENT IN FORCE AS OF 2002-01-01
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UP - 2002-17

5 / 13 INPADOC - ©INPADOC
PN - EP 247989 A2 19871202 [EP-247989]
TI - SELF-CONTAINED PORTABLE UNIT FOR HEATING PHYSIOLOGICAL FLUIDS
LA - E; ENG
IN - VERKAART WESLEY H
PA - LEVEL 1 TECHNOLOGIES INC [US]
AP - EP 87850176/87-A 19870526 [1987EP-0850176]
PR - US 866910/86-A 19860527 [1986US-0866910]
IC - A61M-001/00; A61M-001/36; A61M-005/14
DS - AT* BE* CH* DE* ES* FR* GB* GR* IT* LI* LU* NL* SE*

1 / 3 LEGALI - ©LEGSTAT
PN - DE 3751504 [DE3751504]
DT - DE-P
ACTE - 19951012 DE/REF-P
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1997-33

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2 / 3 LEGALI - @LEGSTAT
PN - AT 127350 [ATE127350]
DT - AT-R
ACTE - 19950915 AT/REF-P
CORRESPONDS TO EP-PATENT
(EP 247989 19950906 [EP-247989])

19960415 AT/UEP [+]
PUBLICATION OF TRANSLATION OF EUROPEAN PATENT SPECIFICATION

19961015 AT/EEFA
CHANGE OF THE COMPANY NAME
1996-43

UP -

3 / 3 LEGALI - @LEGSTAT
PN - EP 247989 [EP-247989]
AP - EP 87850176/87 19870526 [1987EP-0850176]
DT - EP-P
ACTE - 19870526 EP/AE-A
EP-APPLICATION
EP 87850176/87 19870526 [1987EP-0850176]

19871202 EP/AK-A2 [+]
DESIGNATED CONTRACTING STATES IN AN APPLICATION WITHOUT SEARCH
REPORT:
AT BE CH DE ES FR GB GR IT LI LU NL SE

19871202 EP/A2 [+]
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19901122 EP/AK-A3 [+]
DESIGNATED CONTRACTING STATES IN A SEARCH REPORT:
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19910626 EP/17P [+]
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FIRST EXAMINATION REPORT
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DESIGNATED CONTRACTING STATES MENTIONED IN A PATENT

SPECIFICATION:
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PATENT SPECIFICATION

19950906 EP/REF-R [+]
IN AUSTRIA REGISTERED AS:
(AT 127350 19950915 [ATE127350])

19951012 EP/REF-P
CORRESPONDS TO:
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ES: DEFINITIVE PROTECTION
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19951206 EP/ITF [+]
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UFFICIO BREVETTI RICCARDI & C.

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GR: VALIDATION IN GREECE
3017835
<GR>

19960112 EP/ET [+]
FR: TRANSLATION FILED

19960731 EP/REG; CH/PFA
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LEVEL 1 TECHNOLOGIES, INC. -DANN IN- SIMS LEVEL 1, INC.
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1(d) OF THE PATEN
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19961201 EP/REG; ES/PC2A [+]
ES: TRANSFER GRANTED
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19970110 EP/REG; FR/CA
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6 / 13 INPADOC - @INPADOC

PN - EP 247989 A3 19901122 [EP-247989]
TI - SELF-CONTAINED PORTABLE UNIT FOR HEATING PHYSIOLOGICAL FLUIDS
LA - E; ENG
IN - VERKAART WESLEY H
PA - LEVEL 1 TECHNOLOGIES INC [US]
AP - EP 87850176/87-A 19870526 [1987EP-0850176]
PR - US 866910/86-A 19860527 [1986US-0866910]
IC - A61M-001/00; A61M-001/36; A61M-005/14
DS - AT* BE* CH* DE* ES* FR* GB* GR* IT* LI* LU* NL* SE*

1 / 3 LEGALI - @LEGSTAT

PN - DE 3751504 [DE3751504]
DT - DE-P
ACTE - 19951012 DE/REF-P
CORRESPONDS TO
(EP 247989 19951012 [EP-247989])

19960222 DE/8373
TRANSLATION OF PATENT DOCUMENT OF EUROPEAN PATENT WAS RECEIVED
AND HAS BEEN PUBLISHED

19961002 DE/8364 [+]
NO OPPOSITION DURING TERM OF OPPOSITION

19970814 DE/8327
CHANGE IN THE PERSON/NAME/ADDRESS OF THE PATENT OWNER
SIMS LEVEL 1, INC., ROCKLAND, MASS., US

UP - 1997-33

2 / 3 LEGALI - @LEGSTAT

PN - AT 127350 [ATE127350]
DT - AT-R
ACTE - 19950915 AT/REF-P
CORRESPONDS TO EP-PATENT
(EP 247989 19950906 [EP-247989])

19960415 AT/UEP [+]
PUBLICATION OF TRANSLATION OF EUROPEAN PATENT SPECIFICATION

19961015 AT/EEFA
CHANGE OF THE COMPANY NAME

UP - 1996-43

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AP - EP 87850176/87 19870526 [1987EP-0850176]
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19871202 EP/AK-A2 [+]
DESIGNATED CONTRACTING STATES IN AN APPLICATION WITHOUT SEARCH
REPORT:
AT BE CH DE ES FR GB GR IT LI LU NL SE

19871202 EP/A2 [+]
PUBLICATION OF APPLICATION WITHOUT SEARCH REPORT

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DESIGNATED CONTRACTING STATES IN A SEARCH REPORT:
AT BE CH DE ES FR GB GR IT LI LU NL SE

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SEPARATE PUBLICATION OF THE SEARCH REPORT (ART. 93)

19910626 EP/17P [+]
REQUEST FOR EXAMINATION FILED
910429

19920902 EP/17Q [+]
FIRST EXAMINATION REPORT
920721

19950906 EP/AK-B1 [+]
DESIGNATED CONTRACTING STATES MENTIONED IN A PATENT
SPECIFICATION:
AT BE CH DE ES FR GB GR IT LI LU NL SE

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PATENT SPECIFICATION

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IN AUSTRIA REGISTERED AS:
(AT 127350 19950915 [ATE127350])

19951012 EP/REF-P
CORRESPONDS TO:
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IT: TRANSLATION FOR A EP PATENT FILED
UFFICIO BREVETTI RICCARDI & C.

19951229 EP/REG; GR/FG4A [+]
GR: VALIDATION IN GREECE
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FR: TRANSLATION FILED

19960731 EP/REG; CH/PFA
CH: NAME/FIRM CHANGED
LEVEL 1 TECHNOLOGIES, INC. -DANN IN- SIMS LEVEL 1, INC.
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19960828 EP/26N [+]
NO OPPOSITION FILED

19961001 EP/NLT1
NL: MODIFICATIONS OF NAMES REGISTERED IN VIRTUE OF DOCUMENTS
PRESENTED TO THE PATENT OFFICE PURSUANT TO ART. 16 A, PARAGRAPH
1(d) OF THE PATEN
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7 / 13 INPADOC - @INPADOC
PN - EP 247989 B1 19950906 [EP-247989]
TI - SELF-CONTAINED PORTABLE UNIT FOR HEATING PHYSIOLOGICAL FLUIDS.
LA - ENG
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PR - US 866910/86-A 19860527 [1986US-0866910]
IC - A61M-001/00; A61M-001/36; A61M-005/14
DS - AT* BE* CH* DE* ES* FR* GB* GR* IT* LI* LU* NL* SE*

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(EP 247989 19951012 [EP-247989])

19960222 DE/8373
TRANSLATION OF PATENT DOCUMENT OF EUROPEAN PATENT WAS RECEIVED
AND HAS BEEN PUBLISHED

19961002 DE/8364 [+]
NO OPPOSITION DURING TERM OF OPPOSITION

19970814 DE/8327
CHANGE IN THE PERSON/NAME/ADDRESS OF THE PATENT OWNER
SIMS LEVEL 1, INC., ROCKLAND, MASS., US
UP - 1997-33

2 / 3 LEGALI - @LEGSTAT
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DT - AT-R
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CORRESPONDS TO EP-PATENT
(EP 247989 19950906 [EP-247989])

19960415 AT/UEP [+]
PUBLICATION OF TRANSLATION OF EUROPEAN PATENT SPECIFICATION

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CHANGE OF THE COMPANY NAME

UP - 1996-43

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DESIGNATED CONTRACTING STATES IN AN APPLICATION WITHOUT SEARCH
REPORT:
AT BE CH DE ES FR GB GR IT LI LU NL SE

19871202 EP/A2 [+]
PUBLICATION OF APPLICATION WITHOUT SEARCH REPORT

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DESIGNATED CONTRACTING STATES IN A SEARCH REPORT:
AT BE CH DE ES FR GB GR IT LI LU NL SE

19901122 EP/A3 [+]
SEPARATE PUBLICATION OF THE SEARCH REPORT (ART. 93)

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REQUEST FOR EXAMINATION FILED
910429

19920902 EP/17Q [+]
FIRST EXAMINATION REPORT
920721

19950906 EP/AK-B1 [+]
DESIGNATED CONTRACTING STATES MENTIONED IN A PATENT
SPECIFICATION:
AT BE CH DE ES FR GB GR IT LI LU NL SE

19950906 EP/B1 [+]
PATENT SPECIFICATION

19950906 EP/REF-R [+]
IN AUSTRIA REGISTERED AS:
(AT 127350 19950915 [ATE127350])

19951012 EP/REF-P
CORRESPONDS TO:
(DE 3751504 19951012 [DE3751504])

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<ES>

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IT: TRANSLATION FOR A EP PATENT FILED
UFFICIO BREVETTI RICCARDI & C.

19951229 EP/REG; GR/FG4A [+]
GR: VALIDATION IN GREECE
3017835
<GR>

19960112 EP/ET [+]
FR: TRANSLATION FILED

19960731 EP/REG; CH/PFA
CH: NAME/FIRM CHANGED
LEVEL 1 TECHNOLOGIES, INC. -DANN IN- SIMS LEVEL 1, INC.
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NO OPPOSITION FILED

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NL: MODIFICATIONS OF NAMES REGISTERED IN VIRTUE OF DOCUMENTS
PRESENTED TO THE PATENT OFFICE PURSUANT TO ART. 16 A, PARAGRAPH
1(d) OF THE PATEN
SIMS LEVEL 1, INC.

19961201 EP/REG; ES/PC2A [+]
ES: TRANSFER GRANTED
SIMS LEVEL 1, INC
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FR: CHANGE OF ADDRESS
<FR>

19970110 EP/REG; FR/CD
FR: CHANGE OF NAME OF NOMINATION
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20020101 EP/REG; GB/IF02 [+]
GB: EUROPEAN PATENT IN FORCE AS OF 2002-01-01
<GB>

UP - 2002-17

8 / 13 INPADOC - @INPADOC
PN - ES 2076932 T3 19951116 [ES2076932]
TI - UNIDADES PORTATILES AUTONOMAS PARA CALENTAR FLUIDOS FISIOLOGICOS.
IN - VERKAART WESLEY H [US]
PA - LEVEL 1 TECHNOLOGIES INC
AP - ES 87850176/87-EP 19870526 [1987EP-0850176]
PR - US 866910/86-A 19860527 [1986US-0866910]
IC - A61M-001/00; A61M-001/36; A61M-005/14

1 / 1 LEGALI - @LEGSTAT
PN - ES 2076932 [ES2076932]
DT - ES-P
ACTE - 19951116 ES/FG2A
DEFINITIVE PROTECTION
247989
UP - 1997-10

9 / 13 INPADOC - @INPADOC
PN - GR 3017835 T3 19960131 [GR3017835]
TI - SELF-CONTAINED PORTABLE UNIT FOR HEATING PHYSIOLOGICAL FLUIDS.
IN - VERKAART WESLEY H [US]
PA - LEVEL 1 TECHNOLOGIES INC [US]
AP - GR 402932/95-A 19951024 [1995GR-0402932]
PR - US 866910/86-A 19860527 [1986US-0866910]

IC - A61M-001/00; A61M-001/36; A61M-005/14

10 / 13 INPADOC - ©INPADOC

PN - JP 63019156 A2 19880126 [JP63019156]
TI - AUTOMATIC FEED TYPE LIQUID ADMINISTRATION APPARATUS
IN - UESURII EICHI BAAKAAATO
PA - REBERU WAN TEKUNOROJIZU INC
AP - JP 129570/87-A 19870526 [1987JP-0129570]
PR - US 866910/86-A 19860527 [1986US-0866910]
IC - A61M-005/16

11 / 13 INPADOC - ©INPADOC

PN - JP 8004626 B4 19960124 [JP96004626]
AP - JP 129570/87-A 19870526 [1987JP-0129570]
PR - US 866910/86-A 19860527 [1986US-0866910]
IC - A61M-005/44; A61M-005/168

12 / 13 INPADOC - ©INPADOC

PN - US 4759749 A 19880726 [US4759749]
TI - HEATER FOR PHYSIOLOGICAL FLUIDS
IN - VERKAART WESLEY H [US]
PA - LEVEL 1 TECHNOLOGIES INC [US]
AP - US 866910/86-A 19860527 [1986US-0866910]
PR - US 866910/86-A 19860527 [1986US-0866910]
IC - A61F-007/12; H05B-001/00

1 / 1 LEGALI - ©LEGSTAT

PN - US 4759749 [US4759749]
AP - US 866910/86 19860527 [1986US-0866910]
DT - US-P
ACTE - 19860527 US/AE-A
APPLICATION DATA (PATENT)
US 866910/86 19860527 [1986US-0866910]

19860703 US/AS02
ASSIGNMENT OF ASSIGNOR'S INTEREST
LEVEL 1 TECHNOLOGIES, INC., 29 ALDRIN ROAD, PLYMOUTH, MA., 02360
* VERKAART, WESLEY H. : 19860527

19880726 US/A
PATENT

19901002 US/RF
REISSUE APPLICATION FILED
900726

19930223 US/RF
REISSUE APPLICATION FILED
921120

19950321 US/RF
REISSUE APPLICATION FILED
931103

19960326 US/RF
REISSUE APPLICATION FILED
951206

19960522 US/AS01

CHANGE OF NAME
SIMS LEVEL 1, INC. 160 WEYMOUTH STREET ROCKLAND, MASSACHUSETTS
02370 * LEVEL 1 TECHNOLOGIES, INC. : 19951017

19970805 US/RF
REISSUE APPLICATION FILED
961202

20020820 US/RF
REISSUE APPLICATION FILED
20020102

UP - 2002-35

13 / 13 INPADOC - @INPADOC
PN - US 4878537 A 19891107 [US4878537]
TI - HEAT EXCHANGER FOR PHYSIOLOGICAL FLUIDS
IN - VERKAART WESLEY H [US]
PA - LEVEL 1 TECHNOLOGIES [US]
AP - US 53637/87-A 19870526 [1987US-0053637]
PR - US 866910/86-A2 19860527 [1986US-0866910]
IC - A61F-007/12

1 / 1 LEGALI - @LEGSTAT
PN - US 4878537 [US4878537]
AP - US 53637/87 19870526 [1987US-0053637]
DT - US-P
ACTE - 19870526 US/AE-A
APPLICATION DATA (PATENT)
US 53637/87 19870526 [1987US-0053637]

19880617 US/AS02
ASSIGNMENT OF ASSIGNOR'S INTEREST
LEVEL 1 TECHNOLOGIES, INC., 29 ALDRIN ROAD, PLYMOUTH, MA 02360 *
VERKAART, WESLEY H. : 19870522

19891107 US/A
PATENT

19960522 US/AS01
CHANGE OF NAME
SIMS LEVEL 1, INC. 160 WEYMOUTH STREET ROCKLAND, MASSACHUSETTS
02370 * LEVEL 1 TECHNOLOGIES, INC. : 19951017

UP - 1999-22

Session finished: 30 SEP 2002 Time 17:17:17